USPS Pricing Engine

Web Service Software Development Kit (SDK)

Guide to help developers integrate the Pricing Engine SDK into their applications.

USPS Pricing Engine

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Web Service Software Development Kit Overview

This software development kit (SDK) is intended to provide software and Internet developers with the ability to integrate postage rate information into programs and/or web sites.

Licenses and Liability

The information and components contained within this SDK may be distributed only to individuals who have signed the USPS User License and may only be used in accordance with the terms of the USPS User License. The USPS assumes no liability for the incorrect implementation of this SDK once it has been incorporated into a client product. The USPS will supply upgrades to the data and/or the objects when needed, but it assumes no part in distribution of these upgrades once the engine has been integrated into client products.

Purpose

This document will explain the Domestic and International Pricing EngineWC3 Web Service Interface.

Contact Information

For Technical Support, contact: Email: RCalcPEPMOSupport@usps.gov

For USPS Support, contact USPS: Email: PostalExplorer@usps.com

Application Programming Interface (API)

Overview

The Pricing Engine is built using the Model, View, Controller (MVC) design pattern and should be used as a black box. All of the Pricing Engine behavior is provide by making calls to methods that are part of a two interface classes named PostOfficeServices and PricingServices.

Working IDs

The Pricing Engine does not enumerate the ID. This was done to allow for greater flexibility. As new services are added the ID of that service only needs to be known to the service itself. The user of the Pricing Engine should not hard code any IDs into their application because services and IDs may change over time. To get the ID of a service, the developer should request the services by specifying to know mail properties and then use the ID of the desired service from the results returned.

Domestic Pricing Engine Interface

The following operations are defined for the Domestic Pricing Engine. See "Pricing Engine Design Model.pdf" for details.

PostOfficeServices Class

GetLocations Method

Description

This method is used to get locations by specifying a list of ZIP Codes. The similiar method with the forDate input parameter changes the behavior to produce results available as of the date specified.

Syntax

GetLocations(in zipCodes : ZipCode[]) : Location[]

GetLocations(in zipCodes : ZipCodeCollection, in forDate : DateTime) : Location[]

GetMailingRestrictions Method

Description

This method is used to get the mailing restrictions for a specified ZIP Code or collection of ZIP Codes. The similiar method with the forDate input parameter changes the behavior to produce results available as of the date specified.

Syntax

GetMailingRestrictions (in zipCodes: ZipCode[]): MailingRestriction[]

Get Mailing Restrictions (in zipcodes: ZipCodeCollection, in for Date: DateTime): Mailing Restriction []

GetZone Method

Description

The method is used to get the zone information between origination and destination ZIP codes. The similar method with the forDate input parameter changes the behavior to produce results available as of the date specified.

Syntax

GetZone(in originZIPCode: ZipCode, in destinationZIPCode: ZipCode): Zone

GetZone(in originZIPCode: ZipCode, in destinationZIPCode: ZipCode, in forDate: DateTime): Zone

GetZones Method

Description

The method is used to get the zone information for a 3-digit ZIP Code. When the ZIP Code collection contains more than a single 3-digit ZIP Code, zone information is returned to each ZIP Code passed. The similiar method with the forDate input parameter changes the behavior to produce results available as of the date specified.

Syntax

GetZones(in zipCodes : ZipCode[]) : Zone[]

GetZones(in zipCodes: ZipCodeCollection, in forDate: DateTime): Zone[]

PricingServices Class

CalculateServicePrice Method

Description

This method is used to calculate the total cost of a selected mail service and any selected extra services.

Syntax

CalculateServicePrice(in request: WSCalculationRequest): CalculatedPricing

GetExtraServicesWithPricing Method

Description

This method is used to get a specified list of extra service with the price of each.

Syntax

GetExtraServicesWithPricing(in extraServicesRequest: WSExtraServicesRequest):

ExtraServicesWithPricing

GetServiceCommitments Method

Description

This method is used to get the mailing service commitments for the specified request. The caller is required to specify the following:

- Origin ZIP Code
- Destination ZIP Code
- Shipping date/time
- Mail shape and size

Syntax

GetServiceCommitments(in servicesRequest : WSServicesRequest) : ServiceCommitment[]

GetServiceWithPricing Method

Description

This method is used to get a list of mailing services with associated extra services for the specified mail piece attributes.

Syntax

GetServiceWithPricing(in request : ServiceRequest) : ServiceWithPricing

GetPriceBySKU Method

Description

This method is used to get a collection of Prices for a specified SKU. The requested SKU can be a full 15 digit SKU or a partial SKU. The requested SKU can also contain wildcard characters "%". The result collection will contain all prices that match the requested SKU. Each node in the collection contains the SKU, Price, Postage Statement Section and Postage Statement Line.

Syntax

GetPriceBySKU(in priceBySKURequest : SKURequest) : SKUPrice[]

GetMailingFees Method

Description

The method is used to get the Mailing Fee for a specified key.

Syntax

GetMailingFees(in mailingFeeRequest: MailingFeeRequest): MailingFee

Validate Method

Description

This method is used to validate the specified mail properties. The method will return origin and destination location objects.

Syntax

Validate(in servicesRequest : WSServicesRequest) : Location[]

WSCalculationRequest Class

Base Class

WSServicesRequest

Properties

Selections : CalculationSelections IsExtraServiceConversational : bool

CalculatedPricing Class

Base Class

None

Properties

Geography: Geography

Commitments : ServiceCommitment[] Restrictions : MailingRestriction[]

Service : PostageService Annotations : Annotation[] Totals : PostagePrice[] Effective: DateTime

CalculationSelections Class

Base Class

None

Properties

MailServiceID : MailServiceID DeliveryOptionKey : string ExtraServices : ExtraServiceID[]

WSExtraServicesRequest Class

Base Class

None

Properties

IDCard: IDCard

Weight: Weight

ExcludeSections : ResultSection[]
MailServiceID : MailServiceID
ExtraServices: ExtraServiceID[]

ExtraServiceParameters: AdditionalInputValue[]

ShippingDateTime: DateTime

ExtraServicesWithPricing Class

Base Class

None

Properties

ExtraServices: ExtraPostageService[]

Annotations : Annotation[]

Effective: DateTime

Geography Class

Base Class

None

Properties

DestinationCity: string DestinationState: string DestinationIsAPO: bool OriginCity: string OriginState: string OriginIsAPO: bool

Zone : int IsLocal : bool

CommonNDC: bool

MailingFee Class

Base Class

None

Properties

Cost: decimal FeeKey: string Price: decimal ValueKey: string

ValueKeyLowerLimit : decimal ValueKeyUpperLimit : decimal

Effective: DateTime

WSMailingFeeRequest Class

Base Class

None

Properties IDCard: IDCard

FeeKeys: MailingFeeRequest.FeeKey[]

QueryValue : decimal

ShippingDateTime: DateTime

MailingFeeRequest .FeeKey Class

Base Class

None

Properties Value : string

WSMailPieceAttributes Class

Base Class

None

Properties

Origin: LocationAttributes
Destination: LocationAttributes
ShippingDateTime: DateTime
Dimensions: Dimensions

Weight: Weight

MailShapeAndSizes : MailShapeAndSize[]
MailPieceContents : MailPieceContent[]
MailEntryPoint : DestinationEntry.EntryValue

Sortation: string

DestinationEntry.EntryValue Enumerator

None DNDC DSCF DDU

DFSS

MailPieceAttributes.LocationAttributes Class

Base Class

None

Properties

ZIP: ZipCode IsPOBox: bool

MailPieceContent Class

Base Class

None

Properties

Key: string

WSServicesRequest Class

Base Class

None

Properties

IDCard: IDCard

MailPieceAttributes: WSMailPieceAttributes

ExcludeSections: ResultSection[]

ExtraServiceParameters: AdditionalInputValue[]

ServiceWithPricing Class

Base Class

None

Properties

Geography: Geography

Commitments : ServiceCommitment[]
Restrictions : MailingRestriction[]

Services : PostageService[] Annotations : Annotation[]

Effective: DateTime

WSSKURequest Class

Base Class

None

Properties

IDCard: IDCard SKU: string

ShippingDateTime : DateTime

SKUPrice Class

Base Class

None

Properties

SKU : string Price : decimal

PostageStatementSection: string PostageStatementLine: int

International Pricing Engine Interface

The following operations are defined for the International Pricing Engine. See "Pricing Engine Design Model.pdf" for details.

PostOfficeServices Class

GetCountries Method

Description

This method is used to get the collection of countries.

Syntax

GetCountries(): Country[]

GetCountriesForDate Method

Description

This method is used to get the collection of countries as of the "forDate".

Syntax

GetCountries(in forDate: DateTime): Country[]

GetCountryInformation Method

Description

This method is used to get the Country Information for a specific country. This includes the country price group, prices and other guideline.

Syntax

GetCountryInformation(in country: Country, in calculatorID: CalculatorID): CountryInformation

${\it GetCountryInformationForDate\,Method}$

Description

This method is used to get the Country Information for a specific country as of the "forDate". This includes the country price group, prices and other guideline.

Syntax

GetCountryInformationForDate(in country: Country, in shippingDate: DateTime): CountryInformation

GetCountryRegulations Method

Description

This method is used to get the collection of Regulations for a specific country.

Syntax

GetCountryRegulations(in country: Country): CountryRegulation[]

GetCountryRegulationsForDate Method

Description

This method is used to get the collection of Regulations for a specific country as of the "forDate".

Syntax

GetCountryRegulationsForDate(in country: Country, in forDate: Datetime): CountryRegulation[]

GetPriceBySKU Method

Description

This method is used to get a collection of Prices for a specified SKU. The requested SKU can be a full 15 digit SKU or a partial SKU. The requested SKU can also contain wildcard characters "%". The result collection will contain all prices that match the requested SKU. Each node in the collection contains the SKU, Price, Postage Statement Section and Postage Statement Line.

Syntax

GetPriceBySKU(in priceBySKURequest : SKURequest) : SKUPrice[]

ValidateCountry Method

Description

This method is used to discover if a specified country is valid.

Syntax

ValidateCountry(in countryID: CountryID): void

ValidateCountryForDate Method

Description

This method is used to discover if a specified country is valid as of the "forDate".

Syntax

ValidateCountryForDate(in countryID: CountryID, in forDate: DateTime): void

PricingServices Class

CalculateServicePrice Method

Description

This method is used to calculate the total cost of a selected mail service and any selected extra services.

Syntax

CalculateServicePrice(in request: WSCalculationRequest): CalculatedPricing

GetExtraServicesWithPricing Method

Description

This method is used to get a specified list of extra service with the price of each.

Syntax

GetExtraServicesWithPricing (in extraServicesRequest : WSExtraServicesRequest) : ExtraServicesWithPricing

GetServicesWithPricing Method

Description

This method is used to get a list of mailing services with associated extra services for the specified mail piece attributes.

Syntax

GetServicesWithPricing(in servicesRequest: WSServicesRequest): ServicesWithPricing

GetPriceBySKU Method

Description

This method is used to get a collection of Prices for a specified SKU. The requested SKU can be a full 15 digit SKU or a partial SKU. The requested SKU can also contain wildcard characters "%". The result collection will contain all prices that match the requested SKU. Each node in the collection contains the SKU, Price, Postage Statement Section and Postage Statement Line.

Syntax

GetPriceBySKU(in priceBySKURequest : SKURequest) : SKUPriceCollection

GetMailingFees Method

Description

The method is used to get the Mailing Fee for a specified key. The Mailing Fee Request can contain a list of keys or a single key path with dots "." delimiters. If the full key path is not specified the result will be in the form of a tree with the end of each brunch containing the price, cost, value key, and value limits. If the QueryValue is specified the results will be filtered using the value limits. If the value key of all the result mailing fee matches, the value is applied to calculate the Cost.

Request Key Example:

internationalBusinessReply.Card

or

internationalBusinessReply

Card

Query Value Example:

Request:

QueryValue = 10

FeeKey = "internationalBusinessReply.Card"

Results:

Price = 0.13Cost = 1.30

Syntax

GetMailingFees(in mailingFeeRequest: MailingFeeRequest): MailingFee

Validate Method

Description

This method is used to validate the specified mail properties.

Syntax

Validate(servicesRequest : WSServicesRequest) : void

CalculatedPricing Class

Base Class

None

Properties

Geography: Geography

Commitments: ServiceCommitment[]

Service : PostageService Annotations : Annotation[] Totals : PostagePrice[]

Regulations: CountryRegulation GXGLocations: GXGLocation[]

Effective: DateTime

WSCalculationRequest Class

Base Class

ServicesRequest

Properties

Selections : CalculationSelections IsExtraServiceConversational : bool

CalculationSelections Class

Base Class

None

Properties

MailServiceID : MailServiceID DeliveryOptionKey : string ExtraServices : ExtraServiceID[]

Geography Class

Base Class

None

Properties

ID : CountryID Name : string Code : string Number : string

WSExtraServicesRequest Class

Base Class

None

Properties

IDCard: IDCard Weight: Weight

ExcludeSections : ResultSection[]
MailServiceID : MailServiceID
ExtraServices : ExtraServiceID[]

ExtraServiceParameters: AdditionalInputValue[]

ShippingDateTime: DateTime

ExtraServicesWithPricing Class

Base Class

None

Properties

ExtraServices: ExtraPostageService[]

Annotations : Annotation[] Effective: DateTime

WSMailingFeeRequest Class

Base Class None

Properties IDCard: IDCard

FeeKeys: MailingFeesRequest.FeeKeyCollection

QueryValue : decimal

ShippingDateTime: DateTime

MailingFee Class

Namespace

ManTech. Usps. Rate Engine. Business. Entity

Base Class

None

Properties

Cost: decimal FeeKey: string Price: decimal ValueKey: string

ValueKeyLowerLimit : decimal ValueKeyUpperLimit : decimal

Effective: DateTime

MailingFeeRequest .FeeKey Class

Namespace

ManTech. Usps. Rate Engine. Business. Entity

Base Class

None

Properties

Value: string

WSMailPieceAttributes Class

Base Class

None

Properties

Origin: LocationAttributes

Destination: LocationAttributes ShippingDateTime: DateTime Dimensions: Dimensions

Weight: Weight

MailShapeAndSizes : MailShapeAndSize[] MailPieceContents : MailPieceContent[]

MailPieceAttributes.LocationAttributes Class

Base Class

None

Properties

CountryID: CountryID CountryName: string CountryCode: string CountryNumber: string PostalCode: string IsPOBox: bool

WSServicesRequest Class

Base Class

None

Properties

IDCard: IDCard

MailPieceAttributes: WSMailPieceAttributes

ExcludeSections: ResultSection[]

ExtraServiceParameters: AdditionalInputValue[]

ServicesWithPricing Class

Base Class

None

Properties

Geography: Geography

Commitments: ServiceCommitment[]

Services: PostageService[]
Regulations: CountryRegulation
GXGLocations: GXGLocation[]
Annotations: Annotation[]
Errors: PricingEngineError[]

Effective: DateTime

WSSKURequest Class

Base Class

None

Properties

IDCard: IDCard SKU: string

ShippingDateTime: DateTime

SKUPrice Class

Base Class

None

Properties

SKU : string Price : decimal

PostageStatementSection: string PostageStatementLine: int

Rate Engine Framework

AdditionalInputValue

Base Class

None

Properties

TypeID: string

EnteredValue: decimal

Annotation Class

Base Class

None

Properties

Text: string

Associations : Association[]

Country Class

Base Class

None

Properties

CountryID: CountryID

Name: string

NameParts: string[]

Code: string

CountryNumber: string

TypeOf: short

Status: CountryStatus IsDisplayed: bool ShowOnlinePrice: bool MaxWeight: Weight IsParent: bool Aka: CountryAlias[]

Country.Status Enumerator

Unknown Normal NoOnlineService ServiceSuspended

Country Alias Class

Base Class

None

Properties

Alias: string

CountryID Structure

Base Class

None

Properties

Value: int

CountryInformationItem Class

Base Class

None

Properties

CountryToMailService : CountryToMailService CountryToExtraServices : CountryToExtraService[]

Price : decimal

OnlinePrice: decimal

CommercialPlusPrice: decimal

CountryRegulation Class

Base Class

None

Properties

Country: Country
Prohibitions: string
Restrictions: string
Observations: string
CustomsForms: string

ExpressMailRegulations: string ExpressMailNote: string AdditionalRestrictions: string

CountryToMailService Class

Base Class

None

Properties

ServiceTitle: string

MailServiceID: MailServiceID

IsAvailable : bool WeightLimit : Weight

Weight Limit Operator: Weight. Weight Operator

weightMin: Weight

WeightMinOperator: Weight.WeightOperator

InsuranceMax: decimal PriceGroups: PriceGroup[] EstimatedDeliveryTime: string

DimensionalRange: DimensionalRange

CountryToExtraService Class

Base Class

None

Properties

ServiceTitle: string

ExtraServiceID: ExtraServiceID

IsAvailable : bool Price : decimal OnlinePrice : decimal

Dimensions Class

Base Class

None

Properties

Length: Dimension Width: Dimension Height: Dimension Girth: Dimension IsRectangular: bool

Round Down To Quarter Inch: bool

DimensionalRange Class

Base Class

None

Properties

MaxLength: Dimension MaxWidth: Dimension MaxHeight: Dimension

MaxLengthPlusGirth: Dimension

MaxLWH: Dimension MinLength: Dimension MinWidth: Dimension MinHeight: Dimension MinThickness: Dimension

Text: string

AdditionalSizes: DimensionalRange[]

ExtraPostageService Class

Base Class

None

Properties

ID : ExtraServiceID
Name : string
GroupCode : string
Prices : PostagePrice[]

AdditionalFields : AdditionalInput[] Attributes : PostageAttribute[]

ExtraPostageService.AdditionalInput Class

Base Class

None

Properties

Key: string Min: decimal Max: decimal

ExtraServiceID Structure

Base Class

None

Properties

Value: int

GXGLocation Class

Base Class

None

Properties

LocationName: string

Street: string
City: string
State: string
ZipCode ZipCode:
WeekdayCutOff: string
SaturdayCutOff: string

IDCard Class

Base Class

None

Properties

CallerID: string SourceID: string CustomerType: string

Location Class

Base Class

None

Properties

ZipCode : ZipCode City : string State : string

FinanceCode: string

IsApo: bool

ClassificationCode : string

IsValid : bool IsMailable : bool

IsHoldForPickupAvailable: bool IsSundayHolidayAvailable: bool NonDeliveryDays: DayOfWeek[] PremiumDays: DayOfWeek[] LocationType: TypeOfLocation

IsPOBox: bool

TypeOfLocation Enumerator

Origination Destination Neither

MailingRestriction Class

Base Class

None

Properties

ZipCode : ZipCode

Restrictions : Restriction[]

MailingRestriction.Restriction Class

Base Class

None

Properties Code : string

Description: string

MailServiceID Structure

Base Class

None

Properties

Value: short

MailShapeAndSizeEnum Enumerator

Unknown

Letter

LetterLarge

Package

Postcard

FlatRateBox

FlatRate

ExpressMailServices

PriorityMailServices

FirstClassMailServices PostalServices FlatRateEnvelope

PostageAttribute

Base Class

None

Properties Key: string Value: string

PriceDetail Class

Base Class

None

Properties **Your string**

Key: string Value: string

PriceGroup Class

Base Class

None

Properties

Key: string Value: string

PostagePrice Class

Base Class

None

Properties

Amount : decimal Type : string

Details: PriceDetail[]

PostageService Class

Base Class

None

Properties

ID : MailServiceID Name : string

DeliveryOptions : DeliveryOption[]

GroupCode: string MaxWeight: Weight MinWeight: Weight

DimensionalRange: DimensionalRange ExtraServices: ExtraPostageService[] Attributes: PostageAttribute[]

PostageService.DeliveryOption Class

Base Class

None

Properties

Key: string

Commitment: string

Name: string

Prices: PostagePrice[]

ResultSection Class

Base Class

None

Properties

Key: ResultSection.SectionType

ResultSection.SectionType Enumerator

Unknown

CountryRegulations

DimensionalRange

ExtraServices

Geography

GXGLocations

PriceDetails

Restrictions

ServiceCommitments

Annotations
Breadcrumb
RelatedLinks
HelpLinks
Notes
Footnotes
ServiceCommitmentCall

Weight Class

Base Class

None

Properties

Ounces : decimal Pounds : decimal Units : WeightUnit

Weight.WeightUnit Enumerator

Unknown Ounces Pounds

ZipCode Structure

Base Class

None

Properties

Value: string

Zone Class

Base Class

None

Properties

OriginZipCode : ZipCode DestinationZipCode : ZipCode

ZoneCount : int IsIntraBMC : bool IsLocal : bool

Has5DigitZones: bool

Zone5DigitZones: Zone5Digit[]

Zone. Zone5Digit Class

Base Class

None

Properties

OrigZIPFirst: ZipCode OrigZIPLast: ZipCode DestZIPFirst: ZipCode DestZIPLast: ZipCode ZoneCount: int

Service Delivery Extensions

DOMESTIC NAMESPACE

OnlineServiceCommitment Class

Base Class

ServiceCommitment

Properties

EstimatedDeliveryTime: string DeliveryDateTime: DateTime

IsHoliday: bool

CommitmentName; string CommitmentTime: string CommitmentSequence: string

locations : ServiceCommitment.PostalLocation[]

holdForPickupLocations: ServiceCommitment.PostalLocation[]

ServiceCommitment Class

Base Class

None

Properties

ServiceCommitmentType: Type

Product: string ErrorNumber: int ErrorMessage: string

ServiceCommitmentGuarantee: Guarantee

UsedByMailService: MailServiceID[]

ServiceCommitment.Guarantee Enumerator

Unknown NoGuarantee MoneyBackGuarantee LossOnlyGuarantee

ServiceCommitment.Type Enumerator

Unknown = 0 ExpressMail PriorityMail FirstClassMail StandardMail Periodicals

PackageServices

ServiceCommitment.PostalLocation Class

Base Class

None

Properties
CutOff: string
Facility: string
FacilityID: string
Street: string
City: string
State: string

ZipCode : string ZipCode4 : string

ScheduledDeliveryDate: DateTime

closeTimes : string[]

INTERNATIONAL NAMESPACE

ExpressMailGuaranteed Class

Base Class

ServiceCommitment

Properties

None

ServiceCommitment Class

Base Class

None

Properties

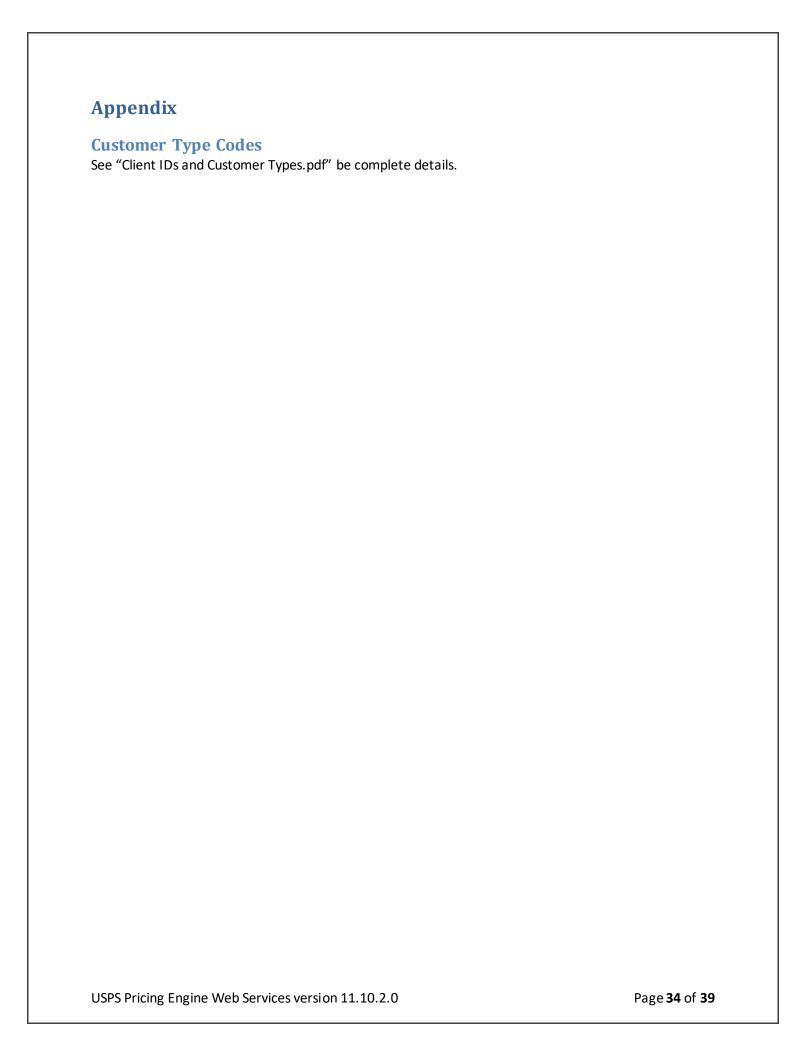
Type: ServiceCommitmentType

ErrorNumber: int ErrorMessage: string DeliveryDate: string

City: string

StateOrProvince: string ShippingDate: DateTime ShippingTime: string

UsedByMailService : MailServiceID[]



Group Code Description

Mail Service Group Codes

	Field Name	Code	Description
0	Service	D	Domestic
		Ī	International
1	Mail Type	Ē	Priority Mail Express
	, , , , , , , , , , , , , , , , , , , ,	P	Priority Mail
		Z	Priority Mail Critical Mail
		C	ECOMPRO
		F	First-Class Mail
		Т	Standard Post
		М	Media
		L	Library
		В	Bound Printed Matter
		S	Standard Mail
		R	Parcel Return Service
		V	Parcel Select
		W	Parcel Select Lightweight
		0	PMOD
		D	EDDM
		G	GXG
		Q	ISAL
		Α	Airmail
		Υ	IPA
		Χ	Extra Service (see Extra Service Group Code table)
2	Sub Type	Χ	None
		F	Flat Rate
		R	Regional Rate
		Α	Automation
		В	Nonautomation
		Q	AutomationDisc
		Υ	NonautomationDisc
		М	Machinable
		N	Nonmachinable
		С	Carrier Route
		D	Carrier Route NonAutomation
		I	Irregular
		P	Presorted
		V	Nonpresorted
	CI	U	Cubic
3	Shape	X	None
		В	Box
		E	Envelope
		С	Postcard
		<u> </u>	Letter
		F	Flat or Large Envelope
		Р	Parcel or Package
1	Chana Cub	М	M Bag
4	Shape Sub	0	Shape sub version 0 to number of

5	Delivery Type	Χ	None
		S	Sunday/Holiday
		Н	Hold For Pickup
6	Delivery Time	Χ	None
		Α	AM
		Р	PM

Extra Service Group Codes

Index	Field Name	Code	Description
0	Service	D	Domestic
		Ι	International
1	Type	Χ	Extra Service
2	Extra Service Type	Χ	None
		I	Insurance
		R	Return Receipt
		С	Collect on Delivery
		D	Certificate of Mailing
		E	Certified Mail
		T	USPS Tracking
		S	Signature Confirmation
		G	Registered Mail
		J	Restricted Delivery
		Н	Special Handling
		Α	Adult Signature Required
		В	Adult Signature Restricted Delivery
		М	10:30 Delivery
		L	Parcel Airlift
		Z	Sunday/Holiday Delivery
		K	Picture Permit Imprint
		U	USPS Delivery Confirmation
3	Associated Mail	Χ	None
	Туре	E	Priority Mail Express
		Р	Priority Mail
		G	GXG
4	Variation	0	Variation version 0 to number of
5	Sub Type	Χ	None
		E	Electronic
		М	for Merchandise
		Α	After Mailing
6	Not currently used	Χ	None

Attribute Keys

Domestic

Key	Description
MailEntry	The Mail Entry type
Sort	The Sortation
DimensionalWeightR	The Dimensional Weight. Returned when the Dimensional Weight is used in
	the calculation of the Retail Price.
DimensionalWeightCB	The Dimensional Weight. Returned when the Dimensional Weight is used in
	the calculation of the Commercial Base Price.
DimensionalWeightCP	The Dimensional Weight. Returned when the Dimensional Weight is used in
	the calculation of the Commercial Plus Price.
DimensionalWeightNA	The Dimensional Weight. Returned when the Dimensional Weight is used in
	the calculation of the Price and the Price Type is Not Applicable.

International

Key	Description
IncludedIndemnity	The included Insurance Indemnity for the mail service / weight.
DeclaredValueSDR	The value with the Special Drawing Right applied to the declare value.
IncInceNonnegotiableDoc	The Included Insurance amount when the mail piece contains only
	Nonnegotiable Document(s).
IncInceMerchandise	The Included Insurance amount when the mail piece contains Merchandise.
ECOMPRO	Set to True or False to indicate that Priority Mail International mail service is
	or is not ECOMPRO.
lp_type	Indicator if the block information is for a Logistics Partner or Post.
	See the Web Service UPUXIT SDC Spec
lp_code	The Logistics Partner code that will support international transportation.
lp_barcodetype	The barcode(s) that a Logistics Partner will support for international
' -	transportation. A commas delimited list of Barcodes.
	i.e. S10,W12

Content Keys

Domestic

Key	Description
LiveAnimals	The mail piece content is a Live Animal(s).
	Equivalent to Special Handling - Live Animal Transportation
DayOldPoultry	The mail piece content is a Live Animal(s) that is Day Old Poultry.
Hazmat	The mail piece content is Hazmat.
	Equivalent to Special Handling - Hazardous Material Transportation
GroundTransportation	The mail piece requires Ground Transportation.
Nonmachinable	The mail piece is Not Machinable.
CrematedRemains	The mail piece content is Cremated Remains
	Equivalent to Special Handling - Cremated Remains
Perishables	The mail piece content is Perishable.
	Equivalent to Special Handling - Perishables
Fragile	The mail piece content is Fragile
	Equivalent to Special Handling – Fragile
NonnegotiableDocument	The mail piece contains only Nonnegotiable Document(s).
nonprofit	The mail piece is being mailed from a nonprofit.
MedicalSupplies	The mail piece contains medical supplies
Pharmaceuticals	The mail piece contains pharmaceutical supplies

Note: Content Keys are subject to change.

International

Key	Description
Nonmachinable	The mail piece is Not Machinable.
CrematedRemains	The mail piece contents Cremated Remains
NonnegotiableDocument	The mail piece contains only Nonnegotiable Document(s).
MedicalSupplies	The mail piece contains medical supplies
Pharmaceuticals	The mail piece contains pharmaceutical supplies
Rolls	The mail piece is a Roll.

Note: Content Keys are subject to change.

Price Detail Keys

Domestic

Key	Description
LA	Live Animal Fee
S	Sunday/Holiday Fee
Α	10:30 AM Delivery Fee
NM	Nonmachinable Fee
Х	Base Price
F	Fragile Fee

International

Key	Description
NM	Nonmachinable Fee
X	Base Price

Price Group Keys

International

Key	Description
R	Retail Price
В	Commercial Base Price
Р	Commercial Plus Price
1	NSA 1 Price
2	NSA 2 Price

The Price Group Keys matches the SKU definition for Price Types.

Sortation Keys

Domestic

Key	Description
5D	5-Digit
3D	3-Digit
BAS	Basic
CR	Carrier Route
FSS	FSS
FSSC	FSS Scheme Container
FSFC	FSS Facility Container
NDC	NDC
SCF	SCF
TBE	EMM Tray Box
TBF	Full Tray Box
TBH	Half Tray Box
TBT	Flat Tub Tray Box
PST	Presort
MIX	Any mixed mailing

Note: Sortation Keys will be extended as new sortation's are supported